



# APM CO., LTD

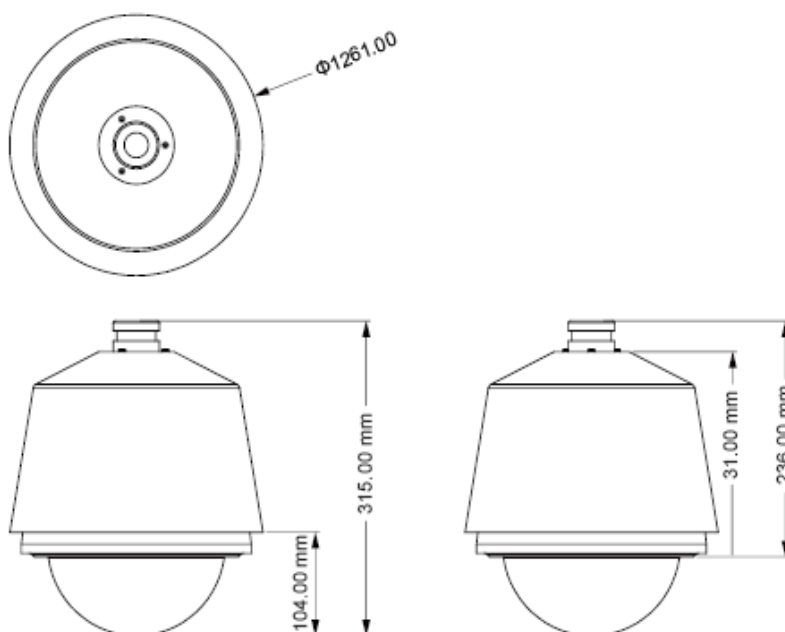
## AAL-9512 Outdoor IP Speed Dome Camera



### Features

- 1/4" SONY ExView HAD CCD sensor.
- High Quality MPEG4 Compression, MPE3G4/MJPEG dual codec selectable.
- Variable Pan speed 0~400°/s, and tilt speed 0~200°/s.
- 1 audio input and 1 BNC video output.
- Configured for motion detection and alarm I/O triggers with still image capture and e-mail video notice.
- Open HTTP API and streaming API for system integrators to easily develop niche applications.
- Day/Night Mode with Auto-IR Cut Filter removal technologies.

### Dimension Diagram





# APM CO., LTD

## Specifications

CAMERA (OPTIONAL)*	AAL-9412-480CP	AAL-9512-980SP
Image Sensor	1/4" Sony Exview HAD CCD	1/4" Sony Super HAD CCD
Effective Pixels	752 (H) X 582 (V), 440K	630K(NTSC); 740(PAL)
Optical Zoom	18x Optical	26X Optical
Digital Zoom	12x Digital	12X Digital
Angle of View (H)	48"(wide end) to 2.8"(tele end)	42.2° (WIDE end)-1.6° (TELE end)
Minimum working distance	290mm (WIDE end), 800mm(TELE end)	320mm (WIDE end), 1500mm(TELE end)
Minimum Illumination	0.7 lux(Typical)	2.0Lux, (F1.6, 1/50s)
S/N Ratio	> 50dB	> 50dB
Gain	Auto/Manual (-3-28dB, 2dB Steps)	Auto/Manual (-3-28dB, 16 Steps)
Electronic Shutter	1/1-1/10000s, 22 Steps	1/3-1/10000s, 20 Steps
White Balance	Auto, ATW, Indoor, Outdoor, One Push, Manual	Auto, ATW, Indoor, Outdoor, One Push, Manual
Privacy Zone Masking	ON/OFF	ON/OFF
ICR(IR Cut- Filter)	ON/OFF	ON/OFF

Panning / Tilting	
VIDEO	360° endless
Panning Range	Manual: Approx. 0.1°/s ~ 200°/s, preset: up to approx. 400°/s
Panning / Tilt Speed	0° ~ 90° (upward - level - downward)
Tilting Range	64
Number of The	Preset, Auto pan, Tour
Preset Positions	
PTZ control	Panning/Tilting

VIDEO	
Video compression	MPEG4 / JPEG (dual codec), H.263 (for 3GPP)
Video frame rate	up to 30fps for all video resolutions
Compression rate selection	5 levels: best, better, normal, faster, fastest
Frame rate setting	PAL: 4,6,8,12,25 ; NTSC: 4,6,7,10,15,30 fps
Video resolution	NTSC:176x112, 320x240, 640x480, 704x480 PAL:176x144, 352x288, 640x480, 704x576
Image rotation	Mirror / Up side down / Flip
Motion detection	Yes (3 windows)

AUDIO	
Internal Microphone	Sensitivity: - 62 dB

COMMUNICATION	
LAN port	RJ-45, 10/100M auto-sensed, auto crossover
Communication protocol	HTTP, RTSP, FTP, SMTP, TCP/IP, UDP, ARP, ICMP, DHCP, PPPoE, DDNS, UPnP, SAMBA

I/O	
Alarm Input	4
Alarm output	2
Analog video output	1
Analog audio output	0
Analog Microphone Input	1
LAN port	1

SYSTEM	
CPU	32bit RISC CPU
RAM	32MB
Flash ROM	4M Byte
OS	uCLinux



# APM CO., LTD

## SOFTWARE

Browser	Internet Explorer 6.0 or above
Application Software	CentaView application software
OS supported	Microsoft Windows 2000, XP

## SOFTWARE FEATURES

1. System	Name LED Status : ON/OFF/FLASH
2. TCP/IP	Static IP Address IP Address Subnet Mask Default Gateway Dynamic IP Address DHCP PPPoE User ID User Password Primary DNS Address Secondary DNS Address Dynamic DNS UPnP IP filter
3. User	Three levels Administrator / Operator / Viewer
4. Date/ Time Setting	Date: Year/Month/Day Time: Hour/Minute/Second NTP Protocol NTP Server Address Time Zone
5. Video	Compression Rate 5 levels: best, better, normal, faster, fastest Frame Rate: PAL: 1, 2,3,4,5,6,12,25 ; NTSC: 1,2,3,4,5,6,7,10,15,30 fps Video Resolution NTSC: 176x112, 320x240, 640x480, 704x480 PAL: 176x144, 352x288, 640x480, 704x576 Brightness Control Yes Contrast Control Yes
6. Upload configuration	FTP SMTP SAMBA

7. Dynamic DNS	Service User Name Password Domain Name
8. Motion Detection	Motion Sensitivity is adjustable Motion mask can be set easily
9. Events	On Boot Motion detection Alarm-in Schedule ( Always / Weekly during time / Never )
10. Triggered Actions	Sends video e-mail Uploads video file to ftp server Save video file to network share Send notification to TCP/HTTP server Control camera to preset location Turn on alarm output
11. P / T Control	Pan: 360° endless Tilt: -2° ~ 90° Pan / Tilt control Supports 64 location Preset / Recall control Supports 5 Camera Touring Auto Pan
12. Open API	CGI commands to control camera Media SDK to handle streaming
13. Other	Reset to factory default setting

## POWER

Power	24V AC / 12V DC
Power consumption	≤ 14.5W

## SIZE

Main body	Φ149 x 230 mm
-----------	---------------

## Operating environment

Operating temperature	-10°C ~ 50°C
Storage temperature	-20°C ~ 70°C
Humidity	10% ~ 90% non-condensing

## Approvals

Main body	CE Class B/ FCC Class B
-----------	-------------------------

“\*”: Camera (PAL)-Option, Also provide NTSC Type